

106 North Cecil Street Bonduel, WI 54107 Phone: 715-758-2178

Online: bonduel.agsource.com

bonduel@agsource.com

Soil Test Methods

It is important to note that there is no perfect method for determining how much or little of an essential nutrient is available for plant uptake. Availability is determined by soil moisture, temperature, pH, clay content, internal drainage, organic content, physical barriers and many other factors. As any of these factors change, the availability will also change. From a client perspective, it is important to know the methodologies your laboratory is using. The soil test methods used by AgSource Laboratories in Bonduel, Wis., are listed below.

<u>Analysis</u>	<u>Units</u>	<u>Description</u>
Soil pH		1:2 Soil/Water Slurry
Buffer pH (Buffer Index)		Sikora Method
Soluble Salt	us/m	1:4 Soil/Water Slurry
Cations (Ca, Mg, Na)	ppm	Ammonium Acetate Extraction
Phosphorus	ppm	Bray 1, read colorimetrically
By request, if pH \geq 7.3	ppm	Olsen Extraction
Potassium	ppm	Bray 1
Traces (Zn, Mn, Cu, Fe)	ppm	DTPA Extraction
Sulfur	ppm	Turbidimetric Procedure
Boron	ppm	Hot Water Extraction
Nitrate	ppm	Electrode Method
Organic Matter (OM)	%	Loss on Ignition (LOI)
Calcium, Potassium,	ppm	Mehlich 3 Extraction
Phosphorous, and Magnesium		